GOVERNMENT OF INDIA
HEALTH AND FAMILY WELFARE
LOK SABHA

STARRED QUESTION NO:42
ANSWERED ON:27.07.2005
ERADICATION OF VECTOR BORN DISEASES
Kanodia Shri Mahesh Kumar;Oram Shri Jual

Will the Minister of HEALTH AND FAMILY WELFARE be pleased to state:

(a) whether the Government is aware of the growing incidents of vector born diseases such a s Malaria, Dengue, Cholera, Encephalitis, Kala-Azar etc. in several parts of the country;

(b) if so, the details of the number of patients, State-wise and disease-wise;

(c) the details of the persons died, State-wise; and

(d) the measures taken so far to prevent and eradicate the vector born diseases?

Answer

THE MINISTER OF HEALTH AND FAMILY WELFARE (DR. ANBUMANI RAMADOSS)

(a)to(d): A statement is laid on the Table of the House.

STATEMENT REFERRED TO IN REPLY TO THE LOK SABHA STARRED QUESTION NO. 42 FOR 27.7.2005

(a) to (c): The incidence of vector borne diseases in several parts of the country is due to a complex interplay of various factors including those of poor sanitation, monsoon, developmental projects, migration of people from one endemic area to another area and lack of awareness about how to prevent the spread of the disease . The pattern of vector borne disease such a s Malaria, Filaria, Dengue, Kala-azar, Encephalitis and other diseases such as Cholera can be summarized as follows

MALARIA

The incidence of malaria in the country has declined from 2.09 million in year 2001 to 1.82 million in year 2004. The total number of malaria cases and deaths due to malaria during last 4 years is indicated below:

Malaria situation in the country (2001-2004)

Year	Total Malaria Cases (in million)	API	P.falciparum cases	Deaths due to malaria
2001	2.09	2.06	1.01	1005
2002	1.84	1.80	0.89	973
2003	1.86	1.82	0.85	1006
2004#	1.82	1.74	0.87	940

= Provisional

FILARIA

Lymphatic Filariasis is prevalent in 20 endemic States. Nearly 500 million population spread over 250 endemic districts in these States is at risk. The prevalence of Filaria is determined by the microfilaria rate which ranges from 1-5% in different States. The strategy of Lymphatic Filariasis elimination is through annual mass Drug Administration for 5 years or more to the eligible population

to interrupt the transmission of the disease and capacity building for home based management of Lymphoedema cases.

KALA-AZAR

Kala-azar has been endemic in India for a long time. With the launching of insecticide spray under National Malaria Eradication Programme, Kala- azar declined to negligible proportions due to collateral benefit. However, withdrawal of insecticide spray resulted in resurgence of kala- azar in Bihar, West Bengal and some pockets of Uttar Pradesh during seventies. In 1990, the number of cases increased to 57742 and while the number of deaths went up to 606. The Government of India launched a centrally sponsored Kala-azar Control Programme in 1990- 1991 which resulted in a gradual decline in number of cases.. Since 2001 onwards, the number of cases has ranged from 10,000 to 25,000 annually.

JAPANESE ENCEPHALITIS

As per reports received from state health authorities, JE cases and deaths in 2004 were lower as compared to those reported in the previous year. During 2003, 2568 cases and 707 deaths were reported from 12 states while during 2004, 1695 cases & 366 deaths due to suspected JE were reported in the country from 11 states.

DENGUE

As per reports received from state health authorities, Dengue cases and deaths in 2004 were lower as compared to those reported in the previous year . During 2003, 12754 cases and 215 deaths were reported from 13 states while during 2004, 4153 cases & 45 deaths due to suspected Dengue were reported in the country form 15 states.

CHOLERA

Cholera has been present in India since antiquity. Currently, cholera is not a major public health problem. The Number of cases and deaths reported by the States/UTs during 2003, 2004 and 2005 are as below:

Year	Cases	Deaths
2002	3455	10
2003	2893	2
2004	4728	9
2005	802	Nil

The state wise cases and deaths due to Malaria, Kala-azar, Dengue, JE and Cholera reported by State Health Authorities are given in the Annexure-I to V.

(d): Health being a State subject, it is the responsibility of the State Govts./UTs to combat the growing incidence of vector borne diseases. However, Government of India has been providing support to the States/UTs in the form of cash and commodity assistance , for supply of insecticides and for laboratory diagnostic support . Besides technical guidance along with the support for outbreak investigations and control and for training and Information, Education and Communication is also provided as the Central assistance to the States/UTs. All the vector borne diseases including Malaria, Filaria, Kala-azar, Japanese Encephalitis and Dengue have been integrated under the umbrella programme renamed as National Vector Borne Disease Control Programme with an outlay of Rs. 348 crores for the year 2005-06. The statement showing state wise allocation/expenditure for the period 2002-03 to 2004- 05 is placed at Annexure -VI.

MALARIA

The National Malaria Control Programme was started by the Govt. of India in 1953. However, during late 1970`s there was resurgence of malaria due to operational, technical and administrative factors. Subsequently, a Modified Plan of Operation was brought in place in the year 1977. The Number of malaria cases declined from 6.4 million in the year 1976 to below 2 million in the year 2002. Since then, the number of cases of malaria has remained below 2 million.

The Malaria Control Programme has following components.

a) Early diagnosis and prompt treatment of malaria cases by active and passive surveillance through heath care workers, health institutions and community volunteers by establishing Drug Distribution Centres and Fever Treatment Depots.

b) Integrated vector control including selective indoor residual insecticidal spraying, promotion of insecticide treated bed nets and introduction of larvivorous fish.

c) Information, Education & Communication for generating awareness about prevention and control of malaria.

d) Capacity building by training of health care workers, NGOs on prevention and control activities of malaria and strengthening of State and District Malaria Control Organizations.

e) Monitoring and evaluation of the programme through Management Information System.

FILARIA

In pursuance of the National Health Policy Goal to eliminate Lymphatic Filariasis by 2015, Govt. of India in collaboration with the participating States has launched Mass Drug Administration with Diethylcarbamazine (DEC) Tablets as a single annual dose to the eligible population for 5 years or more. During 2004, Mass Drug Administration with DEC was implemented in 202 Filaria Endemic Districts covering a population of about 407 million in 20 States/UTs. During 2005, all the endemic districts will observe National Filaria Day on 11th November followed by mopping up operations on 12-13th November, 2005 for improving the drug compliance by the community.

KALA-AZAR

Government of India launched a centrally sponsored Kala-azar Control Programme in 1990-91 comprising the following major activities:

a) Vector control through Indoor Residual Spraying with DDT upto 6 feet height from the ground twice annually.
b) Early case detection and complete treatment
c) Communication for behaviour Impact for social mobilization and Inter-sectoral collaboration
d) Capacity Building
e) Operational research.

The implementation of the strategy resulted in declining trend in case and deaths upto 1995. There has been a setback in 1996. However, since then the number of cases of Kala-azar have been ranging from 12,239 to 22,699 year after year. A National Plan for Kala-azar elimination by 2010 has been prepared with goals to reduce incidence of disease to less than 1 per 10,000 at sub- district levels.

DENGUE

While the preventive measures and control of outbreaks is the responsibility of the State Govts., technical support for investigation, prevention and control of dengue outbreak in different parts of the country is provided by the Govt. of India to the States. In addition to training programmes on prevention and control of dengue fever for State and District level healthy functionaries, insecticides, larvicides and other equipments and materials are also provided. The State Governments on their part undertake surveillance activities, IEC campaigns, fogging to control adult vector during outbreaks and management of Dengue cases in various hospitals and Health Centres.

JAPANESE ENCEPHALITIS

The preventive measures for Japanese Encephalitis are directed at reducing the vector density and in taking personal protection against mosquito bites. The reduction in mosquito breeding requires ecological management particularly water management and irrigation practices, as the role of insecticides is limited. JE vaccine is effective for the control of JE but it has some limitations. Indigenous JE vaccine is produced in limited quantities at the Central Research Institute, Kasauli. The vaccine is procured directly by the State Health Authorities. Vaccination is not recommended as an outbreak control measure. Central support is also provided as technical guidance, support for outbreak investigations and control, insecticide and laboratory diagnostic support. In addition, support is also provided for training and Information, Education and Communication.

Annexure - I

State wise Cases and Deaths due to Malaria (2002-2004)

Sl. No.	STATES/UTS	2002		2003		2004#	
		Malaria Cases	Deaths	Malaria Cases	Deaths	Malaria Cases	Deaths
1	ANDHRA PRADESH	38053	0	35995	3	35427	2
2	ARUNACHAL PRADESH	46431	0	34810	0	29849	0
3	ASSAM	89601	72	76570	53	57401	52
4	BIHAR	3683	2	2652	1	1720	0
5	CHHATTISGARH	235434	3	194419	4	175579	6
6	GOA	16818	15	11370	1	7839	7
7	GUJARAT	82966	17	130744	65	222759	89
8	HARYANA	936	0	4374	0	10008	0
9	HIMACHAL PRADESH	176	0	133	0	126	0
10	JAMMU & KASHMIR	455	0	320	0	250	0
11	JHARKHAND	126589	31	118902	13	73893	39

12	KARNATAKA	132584	33	100220	22	80961	27	
13	KERALA	3360	8	2575	7	2790	12	
14	MADHYA PRADESH	108818	30	99708	22	132094	36	
15	MAHARASHTRA	45568	43	62947	85	68988	61	
16	MANIPUR	1268	9	2589	17	2736	8	
17	MEGHALAYA	17918	41	18366	38	18082	29	
18	MIZORAM	7859	35	7293	48	7830	72	
19	NAGALAND	3945	0	3370	0	2486	1	
20	ORISSA	473223	465	421323	333	416732	283	
21	PUNJAB	250	0	379	1	1643	0	
22	RAJASTHAN	68627	11	142738	66	105022	20	
23	SIKKIM	53	0	278	0	160	0	
24	TAMIL NADU	34523	0	43604	0	41732	0	
25	TRIPURA	13319	5	13807	13	17453	16	
26	UTTARANCHAL	1659	0	2350	0	1255	0	
27	UTTAR PRADESH	90199	0	101411	0	85868	0	
28	WEST BENGAL	194421	152	233802	214	220904	180	
29	A & N ISLANDS	865	1	753	0	745	0	
30	CHANDIGARH	157	0	84	0	199	0	
31	D & N HAVELI	493	0	468	0	787	0	
32	DAMAN & DIU	173	0	141	0	118	0	
33	DELHI	1484	0	839	0	521	0	
34	LAKSHADWEEP	8	0	6	0	2	0	
35	PONDICHERRY	103	0	63	0	43	0	
	TOTAL	1842019	973	1869403	1006	1824002	940	

= Provisional

Annexure -II

Statement of Kala-azar Cases & Deaths during 2000 to 2005 (Prov.)

S. No.	Affected District	2000		2001		2002		2003		2004(P)		2005(P)		Reported Upto
		C	D	C	D	C	D	C	D	C	D	C	D	
	BIHAR													
1	Patna	164	3	183	3	213	25	303	22	324	14	122	9	
2	Nalanda	22	2	17	2	80	8	66	2	113	2	32	2	
3	Jahanabad	3	0	2	1	7	0	72	2	17	0	7	0	
4	Bhojpur	47	1	35	0	45	3	44	0	66	0	36	1	
5	Saran	470	3	633	15	491	1	375	5	1029	3	353	0	
6	Siwan	243	0	102	0	124	0	271	0	219	0	69	0	
7	Gopalganj	8	0	21	0	49	0	102	0	423	0	260	0	
8	E.Champaran	944	17	749	11	640	16	919	7	1429	8	446	0	
9	W.Champaran	232	0	164	0	151	0	317	22	442	4	84	2	
10	Muzaffarpur	1356	25	1161	54	1403	32	1270	32	1267	15	561	4	
11	Sitamarhi	422	9	366	22	375	9	259	14	316	13	64	0	
12	Vaishali	876	9	763	17	625	10	698	6	952	8	463	5	
13	Darbhanga	889	23	412	12	485	7	496	7	457	5	118	0	
14	Madhubani	1097	20	769	28	549	26	639	19	476	2	93	0	
15	Samastipur	571	5	359	5	412	3	440	5	514	4	115	1	
16	Bhagalpur	15	0	51	0	47	0	29	0	9	0	7	0	
17	Munger	0	0	3	0	2	0	0	0	36	0	2	0	
18	Khagaria	328	0	471	0	96	0	713	0	310	0	124	0	
19	Bagusarai	256	1	242	11	114	3	261	8	452	14	206	6	
20	Purnea	767	0	527	0	643	1	1367	3	1211	2	299	0	
21	Kathihar	809	3	502	0	419	0	869	25	845	3	217	0	
22	Saharsa	801	0	470	18	588	4	787	0	782	0	421	0	
23	Madhepura	1138	3	745	5	699	8	1427	7	2062	2	742	1	
24	Suppaul	285	0	367	0	397	0	329	0	393	0	52	0	
25	Kishanganj	202	0	198	0	177	1	59	1	47	0	26	0	

26	Ararea	713	1	679	0	644	0	1792	0	1390	0	361	0	
27	Buxar	14	1	11	0	6	0	7	0	1	0	2	0	
28	Sheohar	21	0	29	0	25	0	49	0	50	1	8	0	
29	Sekhpura	2	0	0	0	0	0	0	0	0	0	0	0	
30	Lakhisarai	0	0	0	0	0	0	0	0	25	0	2	0	
31	Arwal	0	0	0	0	0	0	0	0	26	1	6	0	
32	Institutions	214	4	296	0	178	3	0	0	0	0	0	0	
TOTAL		12909	130	10327	204	9684	160	13960	187	15683	101	5339	31	March

JHARKHAND

1	Sahebganj	370	0	92	0	102	0	466	0	441	0	533	0	
2	Godda	99	0	445	0	458	0	1497	3	2298	6	574	2	
3	Pakur	0	0	52	0	198	0	644	2	652	1	164	0	
4	Dumka	0	0	0	0	0	0	0	0	636	7	528	0	
5	Hazaribagh	0	0	0	0	0	0	0	0	1	0	0	0	
TOTAL		469	0	589	0	758	0	2607	5	4028	14	1799	2	March

WEST BENGAL

1	Malda	111	0	129	0	242	1	276	0	313	0	237	3	
2	Murshidabad	373	2	393	0	457	0	480	2	934	11	408	1	
3	Darjeeling	58	0	52	0	89	0	110	0	177	1	48	0	
4	24-Parganas(N)	249	5	180	0	175	2	76	0	139	0	66	0	
5	24-Parganas(S)	116	0	151	1	176	0	145	2	749	2	224	2	

Sl.No.	Affected District	2000		2001		2002		2003		2004(P)		2005(P)		Reported Upto
		C	D	C	D	C	D	C	D	C	D	C	D	
6	Nadia	21	1	35	1	19	1	10	0	27	0	7	1	
7	Hooghly	22	2	17	2	80	8	66	2	113	2	32	2	
8	Burdwan	3	0	2	1	7	0	72	2	17	0	7	0	
9	Dinajpur(N)	103	3	82	1	106	0	166	1	188	0	36	0	
10	Dinajpur(S)	210	0	214	1	255	1	163	0	241	1	106	2	
11	Birbhum	0	0	0	0	16	0	46	2	24	0	61	0	
TOTAL		1244	11	1238	4	1592	5	1487	7	2876	24	1215	11	March

UTTAR PRADESH

1	Varanasi	2	0	0	0	0	0	0	0	0	0	0	0	
2	Balia	2	0	0	0	2	0	14	0	21	1	0	0	
3	Deoria	0	0	3	3	0	0	0	0	0	0	0	0	
4	Gorakhpur	1	0	0	0	0	0	0	0	0	0	0	0	
5	Ghazipur	2	0	0	0	0	0	0	0	0	0	0	0	
6	Kushi Nagar	40	0	19	19	30	1	19	0	2	0	1	0	
7	Ram Pur	0	0	0	0	0	0	1	1	0	0	0	0	
8	Gonda	0	0	0	0	0	0	0	0	11	1		0	
TOTAL		47	0	22	3	32	1	34	1	34	2	1	0	March

1	Delhi	84#	9#	62#	2#	74#	2#	126#	10#	78#	9#	22#	1# March
2	Gujrat	0	0	1	0	0	0	0	0				

INDIA 14753 150 12239 213 12140 168 18214 210 22699 150 8376 45

Note: -
C = Cases
D = Deaths
P = Provisional
# = Imported

DENGUE CASES AND DEATHS

Sl. No.	State	2002		2003		2004		2005(Prov) 18 July	
		C	D	C	D	C	D	C	D
1	Andhra Pr.	61	3	95	5	230	1	0	0
2	Bihar	1	0	0	0	0	0	0	0
3	Chandigarh	15	0	0	`0	0	0	0	0
4	Delhi	45	2	2882	35	606	3	6	1
5	Goa	0	0	12	2	3	0	0	0
6	Gujarat	40	0	249	9	117	4	0	0
7	Haryana	3	0	95	4	25	0	0	0
8	Karnataka	428	1	1226	7	291	2	31	0
9	Kerala	219	2	3546	68	686	8	324	5
10	Maharashtra	370	18	772	45	856	22	16	0
11	Sikkim	0	0	0	0	12	0	0	0
12	Punjab	27	2	848	13	52	0	1	0
13	Rajasthan	325	5	685	11	207	5	7	0
14	Tamil Nadu	392	0	1600	8	1027	0	140	0
15	Uttar Pr.	0	0	738	8	8	0	0	0
16	West Bengal	0	0	0	0	32	0	0	0
17	Pondicherry	0	0	6	0	0	0	0	0
18	D&N Haveli	0	0	0	0	1	0	0	0
	TOTAL	1926	33	12754	215	4153	45	525	6

C = CASES
D = DEATHS

Annexure - IV

STATE-WISE CASES AND DEATHS DUE TO JAPANESE ENCEPHALITIS

Sl. No.	Affected States/UTs	2000		2001		2002		2003(P)		2004 (P)		2005(P)#	
		C	D	C	D	C	D	C	D	C	D	C	D
1	Andhra Pr.	343	72	33	4	22	3	329##	183	7##	3		
2	Assam	158	69	343	200	472	150	109	49	235	64	2	2
3	Bihar	77	19	48	11	8	1	6	2	85	28		
4	Chandigarh	0	0	0	0	4	0	0	0	0	0		

5	Delhi	0	0	0		1	0	12	5	17	0	1	0
6	Goa	15	3	6	2	11	0	0	0	0	0		
7	Haryana	74	43	47	22	59	40	104	67	37	27		
8	Karnataka	438	45	206	14	152	15	226	10	181	6	9	0
9	Kerala	164	2	128	5	0	0	17	2	9	1		
10	Maharashtra	2#	0	126	1	119	16	475	115	22	10		
11	Manipur	0	0	0	0	2	1	1	0	0	0		
12	Punjab	0	0	0	0	10	2	0	0	0	0		
13	Tamil Nadu	4	0	0	0	0	0	163	36	69	9	4	0
14	Uttar Pradesh	1170	253	1005	199	604	133	1124	237	1030#	228##		
15	West Bengal	148	50	119	21	301	105	2	1	3	1	6	0
Total		2593	556	2061	479	1765	466	2568	707	1695	367	22	2

C = Cases
D = Deaths

Cases as reported by respective states up to 20.10.2004 provisionally
Suspected viral encephalitis

Note # State reported additional 80 cases for 2000 as suspected JE

Annexure V

All India Cases and Deaths due to Water Borne Diseases reported during 2002-04

S.No.	Diseases	2002		2003		2004	
		Cases	Deaths	Cases	Deaths		
1	Viral Hepatitis	135859	914	151287	1006	203939	1122
2	ADD	9441456	3475	10510476	3433	9575112	2855
3	Cholera	3455	10	2893	2	4728	9
4	Enteric Fever	488033	542	596684	839	658301	805

Source: CBHI, MHW & FW

ANNEXURE - VI

STATEMENT SHOWING STATE WISE ALLOCATION/EXPENDITURE FOR 2002-03 TO 2004-2005 UNDER NVBDCP

S. No.	States/UTs	2002-03		2003-04		2004-05	
		Allocation	Expenditure	Allocation	Expenditure	Allocation	Expenditure
1	Andhra Pr.	1000.11	548.86	871.91	534.73	822.94	595.13
2	Arunachal Pr.	280.72	377.08	331.44	112.63	464.71	499.38
3	Assam	1626.32	1935.83	2115.17	1364.15	2233.50	1988.29
4	Bihar	1592.57	198.35	3025.40	2789.16	4379.25	3501.96
5	Chattisgarh	1917.27	3047.95	2035.47	1739.99	1848.70	1778.33
6	Goa	8.85	7.97	11.75	18.55	16.15	9.65
7	Gujarat	882.21	767.99	771.41	380.99	655.72	708.33
8	Haryana	71.32	67.21	109.32	37.35	95.33	91.49
9	Himachal Pr.	3.06	11.89	7.00	4.90	16.00	13.52
10	J & K	11.94	62.44	45.63	72.30	70.23	27.63

11	Jharkhand	1246.54	1671.15	1691.84	1296.86	1846.74	1172.71
12	Karnataka	176.28	227.36	297.75	264.87	453.96	316.77
13	Kerala	12.69	13.31	28.76	214.55	78.00	109.71
14	Madhya Pr.	2013.06	2408.15	1727.49	1333.71	1709.78	1063.81
15	Maharashtra	1221.56	947.11	1207.98	463.30	1084.86	593.24
16	Manipur	121.36	144.86	126.44	69.71	190.06	73.39
17	Meghalaya	167.63	301.70	275.01	323.35	435.89	290.81
18	Mizoram	118.51	190.50	175.01	275.68	280.57	153.17
19	Nagaland	212.48	372.14	306.04	386.20	422.30	278.53
20	Orissa	2588.63	3030.80	2907.85	2512.78	2671.61	2295.32
21	Punjab	70.79	65.75	89.89	37.87	63.16	45.85
22	Rajasthan	1170.62	925.90	1474.83	1415.59	1201.40	1015.97
23	Sikkim	4.37	4.32	5.15	2.42	16.30	10.00
24	Tamil Nadu	237.68	187.39	320.03	279.06	270.23	310.20
25	Tripura	302.79	389.93	401.05	428.63	519.42	390.03
26	Uttar Pr.	235.83	607.31	720.19	744.61	870.14	956.43
27	Uttaranchal	7.84	1.96	7.60	39.17	48.20	31.06
28	West Bengal	521.98	518.97	790.36	616.94	858.65	607.85
29	Delhi	97.39	58.47	88.88	80.67	55.62	144.07
30	Pondicherry	22.61	13.18	23.12	11.12	31.38	19.70
31	A&N Island	217.85	230.07	237.75	203.33	225.71	224.11
32	Chandigarh	36.00	38,29	36.25	25.36	49.78	31.67
33	D& N Haveli	34.33	16.07	42.32	60.72	40.08	31.91
34	Daman & Diu	11.72	7.99	16.15	19.29	14.17	11.42
35	Lakshadweep	6.10	5.35	7.47	12.06	10.36	6.02
	Total	18252.01	19403.60	22339.7	18172,6	24050.91	19397.46
36	Cash for states	400.00	0.00	0.00	0.00	0.00	0.00
37	Commd. Misc.	435.00	0.00	112.00	0.00	0.00	0.00
38	Estt./Res. /PUB	4275.00	1278.00	1898.46	1928.31	2374.00	2268.62
39	Delhi Hqrs./ Buffer	0.00	0.00	0.00	0.00	0.00	0.00
40	RITES (Fee)	138.00	0.00	150.00	0.00	135.00	0.00
	Total	5248.00	1278.00	2160.46	1928.31	2848.85	2268.62
	Grand Total	23500.01	20681.60	24500.16	20100.91	26900.00	21666.08